

1                   ABSTRACT OF THE DISCLOSURE  
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3                 Methods for providing flow control of signal streams  
4         over a single full duplex ETHERNET link include receiving  
5         multiple data streams over a single ETHERNET link,  
6         associating a buffer with each data stream, putting  
7         received data into the appropriate buffer, monitoring the  
8         fullness of the buffers, and transmitting a PAUSE frame to  
9         the source of the data streams where the PAUSE frame  
10        indicates the fullness of each buffer. The PAUSE frame is  
11        read and where indicated, the transmission of data destined  
12        for a congested buffer(s) is halted until a subsequent  
13        PAUSE frame is received which indicates that the congested  
14        buffer(s) has become decongested. Apparatus for performing  
15        the methods are also provided.